

REMARKS

Claims 1-5, 10-12 and 14 are all of the claims presently pending in the application.

Claim 10 has been editorially amended.

It is noted that the claims amendments are made only for more particularly pointing out the invention, and not for distinguishing the invention over the prior art, narrowing the claims, or for any statutory requirements of patentability. Further, Applicants specifically state that no amendment to any claim herein should be construed as a disclaimer of any interest in or right to an equivalent of any element or feature of the amended claim.

Claims 1-5, 10, 12 and 14 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Eda et al. (U.S. Patent No. 5,482,127; hereinafter “Eda”), in view of Lewis (U.S. Patent No. 3,234,758). Claim 11 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Eda in view of Lewis, and further in view of Kobayashi et al. (U.S. Patent No. 6,900,564; hereinafter “Kobayashi”).

These rejections are respectfully traversed below.

I. THE CLAIMED INVENTION

The claimed invention of exemplary claim 1, on the other hand, provides an electric power steering device including a grease including a base oil having a kinetic viscosity of 1000 to 5000 mm²/s (40°C), a worked penetration of the grease being not more than 300, and which is charged in a gap between the spline shaft and the cylindrical body, wherein the electric power steering device is devoid of an O-ring between the spline shaft and the cylindrical body (e.g., see Application at page 3, line 20 through page 4, line 5). This

combination of features is important for providing an electric power steering device where the O-ring is omitted, so that the productivity can be enhanced, while maintaining an excellent high temperature working property and preventing gear noise (see Application at page 3, lines 11-18).

II. THE PRIOR ART REJECTIONS

A. Claims 1-5, 10, 12 and 14

The Examiner alleges that Eda would have been combined with Lewis to teach the claimed invention of claims 1-15, 10, 12 and 14. Applicants submit, however, that these references, even if combined, would not teach or suggest each and every feature of the claimed invention.

Applicants point out that in order to establish a *prima facie* case of obviousness "*the prior art reference (or references when combined) must teach or suggest all the claim limitations*" (see M.P.E.P. § 2143; emphasis added).

Applicants submit that the alleged combination of Eda and Lewis fails to teach or suggest an electric power steering device including "*a grease including a base oil having a kinetic viscosity of 1000 to 5000 mm²/s (40 °C), a worked penetration of said grease being not more than 300, and which is charged in a gap between said spline shaft and said cylindrical body, wherein the electric power steering device is devoid of an O-ring between said spline shaft and said cylindrical body*", as recited in claim 1, and similarly recited in claims 12 and 14. Eda and Lewis do not even mention a kinetic viscosity of a grease, let alone teach or suggest the specific limitations of the claimed invention.

Indeed, the Examiner does not even allege that Eda nor Lewis (nor any combination

thereof) teaches or suggests these features of the claimed invention. The Examiner concedes the alleged combination of Eda and Lewis “does not specifically disclose or mention specific greases with kinematic viscosities or worked penetrations within the claimed values of the present application” (see Office Action dated March 19, 2007 at page 4).

The Examiner, however, alleges that these features of the claimed invention are “well-known”. However, the Examiner does not provide any support (e.g., a prior art reference properly combinable with Eda and Lewis) for this allegation.

Indeed, it appears that the Examiner has invoked official notice for claim 1, because the Examiner has not provided any teaching in Eda nor Lewis (nor anywhere else for that matter) to support his allegation. Applicants submit that the Examiner has inappropriately invoked official notice in the rejection of claim 1.

According to MPEP §2144.03, official notice that is unsupported by documentary evidence should only be taken by the Examiner where the facts asserted to be well-known are capable of instant and unquestionable demonstration as being well-known. Furthermore, general conclusions concerning what is “basic knowledge” or “common sense” to one of ordinary skill in the art without specific factual findings and some concrete evidence in the record to support those findings will not support an obviousness rejection (See MPEP §2144.03). Finally, if official notice is taken, the basis for such reasoning must be set forth explicitly. The Examiner must provide specific factual findings predicated on sound technical and scientific reasoning to support his or her conclusion of common knowledge (See MPEP §2144.03). In the present Office Action, the Examiner does not supply any specific factual findings or concrete evidence to support his obviousness rejections based on official notice.

Moreover, Applicants submit that the features recited in the claimed invention amount to more than a mere design choice.

Indeed, as pointed out in the Specification (e.g., see pages 1-3), conventional techniques use greases having either low viscosities (e.g., 100 to 300 mm²/s) or high viscosities (e.g., 10,000 to 30,000 mm²/s). When a grease having a low viscosity is used gear noise is generated in the engagement portion. When a grease having a high viscosity is used, it is difficult to insert and engage the male engagement member with the female engagement member.

According to the claimed invention, a grease having an intermediate viscosity (e.g., 1000 to 5000 mm²/s is used. Use of the claimed intermediate viscosity alleviates the above problems (e.g., see Application at page 13, line 15 through page 14, line 2).

Therefore, the features recited in claim 1 are clearly important and are more than a mere design choice. Therefore, it is clearly erroneous for the Examiner to dismiss these features as “well known” without providing any support for his allegations.

This feature is clearly not taught or suggested by Lewis, which (as pointed out by the Examiner) teaches the use of a high viscosity grease.

Therefore, Applicants submit that neither Eda nor Lewis (nor any combination thereof) teaches or suggest the above features of the claimed invention. Furthermore, Applicants submit that the Examiner has failed to establish a *prima facie* case of obviousness because the Examiner has not provided any support for his erroneous allegations that the above features of the claimed invention are “well-known”.

In his rejection, the Examiner alleges that the above features of the claimed invention are “blatantly obvious”. If these features are “blatantly obvious” as suggested by the

Examiner, Applicants request the Examiner to provide a reference that supports this allegation.

Thus, the alleged combination of Eda and Lewis fails to teach or suggest (or make obvious) the claimed invention of claims 1, 12 and 14.

Furthermore, Applicants submit that dependent claims 2-5 are 10 also patentable at least based on their dependency from independent claim 1.

Therefore, Applicants submit that these references, even if combined, would not teach or suggest each and every feature of the claimed invention. Accordingly, the Examiner is respectfully requested to reconsider and withdraw this rejection.

B. Claim 11

The Examiner alleges that Kobayashi would have been combined with Eda and Lewis to teach the claimed invention of claim 11.

Applicants submit that claim 11 is patentable for similar reasons to those set forth above with respect to claims 1-5, 10, 12 and 14. Accordingly, the Examiner is respectfully requested to reconsider and withdraw this rejection.

III. FORMAL MATTERS AND CONCLUSION

Applicants submit that claim 10 has been amended in a manner believed fully responsive to the Examiners' objection.

In view of the foregoing, Applicants submit that claims 1-5, 10-12 and 14, all the claims presently pending in the application, are patentably distinct over the prior art of

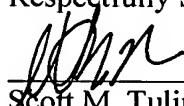
record and are in condition for allowance. The Examiner is respectfully requested to pass the above application to issue at the earliest possible time.

Should the Examiner find the application to be other than in condition for allowance, the Examiner is requested to contact the undersigned at the local telephone number listed below to discuss any other changes deemed necessary in a telephonic or personal interview.

The Commissioner is hereby authorized to charge any deficiency in fees or to credit any overpayment in fees to Attorney's Deposit Account No. 50-0481.

Respectfully Submitted,

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